	SEWATER DISPOSALS.			Meine Dept.Health & Human Service Div of Environmental Health , 11 SHS (207) 287-5872 Fax: (207) 287-4172	
City, Town,	RTY LOCATION	>> CA	UTION: LPI A	PPROVAL REQUIRED <<	
or Plantation	MOINE	Town/City / CV	min	9 Permit# )9/9	
Street or Road	VTE 204	Date Permit Issued	90116 FA		
Subdivision, Lot #		i he	eins	1 L.P.I. # 394	
OWNER/APPLI	CANT INFORMATION	Local Plumbing Ins	pector Signature		
Name (last, first, MI)	ERECA Downer -				
Mailing Address	Apolicant Apolicant			al System shall not be installed until a ng Inspector The Permit shall	
Owner/Applicant	WACKEL MOAD			etall the disposal system in accordance	
	NOINE, 11= OTEL		STOREST CONTRACTOR OF THE PARTY	ubsurface Wastewater Disposal Rules.	
Daytime Tel. # 207		Municipa	I Tax Map#	Lot#_33	
I state and acknowledge that the ini my knowledge and understand that and/or Local Plumbing Inspector to	CANT STATEMENT  formation submitted is correct to the best of any falsification is reason for the Department department.	I have inspect with the Subst	TION REQUIRED itzed above and found it to be in compliance peal Rules Application. (1st) date approved		
Signature of Own	er or Applicant Date		18. 11.		
. 3		MIT INFORMATION	LPlumbing Inspector Sk V	gnatura (2nd) date approved	
TYPE OF APPLICATION	The said the said the	QUIRES	DISPO	DSAL SYSTEM COMPONENTS	
1. First Time System 2. Replacement System	2. First Time System Variance		2 2. Prin	nplete Non-engineered System. nitive System (graywater & alt. toilet)	
Type replaced:	a. Local Plumbing Inspector A. State & Local Plumbing Inspector A.	poroval	3. Alte	mative Toilet, specify:	
Year installed:	5. State & Local Plumbing Insp     3. Replacement System Variance	ector Approval	4. Non-engineered Treatment Tank (only)     5. Holding Tank,gallons		
□ 3. Expanded System □ a. <25% Expansion □ b. ≥25% Expansion	a. Local Plumbing Inspector Ar b. State & Local Plumbing Insp		☐ 6. Non	engineered Disposal Field (only) arated Laundry System	
4. Experimental System		outor Approvar	□ 8. Con	nplete Engineered System (2000 and or more)	
5. Seasonal Conversion	<ul> <li>4. Minimum Lot Size Variance</li> <li>5. Seasonal Conversion Permit</li> </ul>	**	☐ 10. Eng	gineered Treatment Tank (only) gineered Disposal Field (only)	
8IZE OF PROPERTY	DISPOSAL SYSTEM TO SEE	RVE	□ 11. Pre	-treatment, specify: cellaneous Components	
7.5/ SQ.FT	S   - 2. Muluple Family Dwelling, No. of	of Bedrooms: Z		E OF WATER SUPPLY	
SHORELAND ZONING	3. Other: (specify)	•	Drilled	Well ☐ 2. Dug Well ☐ 3. Private	
□ Yes 🐯 No.	. Current Use 3 Seasonal 3 Year Re		G 4. Public		
	DESIGN DETAILS (SYS		IOWN ON PAG	E 3)	
TREATMENT TANK  1. Concrete	DISPOSAL FIELD TYPE & SI	OATDAGE DI		DESIGN FLOW	
b. Low Profile	3. Proprietary Device	-	es 3. Maybe specify one below:	gallons per day	
☐ 2. Plastic	🖺 a. cluster array 🗀 c. Linear	a. multi-compa		BASED ON:  1. Table 4A (dwelling unit(s))	
CAPACITY: OOO GAL.	☐ b. regular load ☐ d. H-20 load ☐ 4. Other		THE RESERVE OF THE PARTY OF THE	2. Table 4C(other facilities)	
	SIZE: 800 sq. ft. 5 lin. ft	_		SHOW CALCULATIONS for other facilities	
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJEC		3. Section 4G (meter readings)	
PROFILE CONDITION		1. Not Required	WITH	ATTACH WATER METER DATA	
at Observation Hole # 77/	1. Medium—2.6 sq. ft. / gpd	2. May Be Required	mores	LATITUDE AND LONGITUDE	
Depth 6"	2. Medium-Large 3.3 sq. f.t / gpc	☐ 3. Required  Specify only for engine	IK ELEV	Lat. At genter of disposal area	
of Most Limiting Soil Factor	4. Extra Large5.0 sq. ft. / gpd	DOSE:	pallons	Lon. Od Om 20:W	
		ATOR STATEME	NT	in g.p.s, state margin of entor.	
certify that on 8/31/	. 0				
	n compliance with the State of Main	iation on this proper	ly and state that the	he data reported are accurate and	
	Somplance with the state of walk	#212	Water Disposal Ri	Lies (10-144A CMR 241).	
Site Evaluato	r Signature	SE#		/02/18 Date/	
STENUAL	H. HOWECC	(207)00	5-A7:0-	7	
Site Evaluato	r Name Printed	Telephone N	Number	E-mail Address	
V.	ns from the design should be confire	■			
		men mill file Sife EA	aidator.	Page 1 of 3 HHE-200 Rev. 08/2011	

Sirvel, Road, Subdivision  Owner's Name  Owner's Name  STEPLAN  Scale 1" On or as shown  STEPLAN  STEP	SUBSURFACE WASTEWATER DISPOSAL SY	STEM APPLICATION	Department of Health & I	ental Health
SITE PLAN  Scale I" Soft or as shown  SITE LOCATION PLAN  WATER TO THE CONTROL OF	Town, City, Plantation Street,	Road, Subdivision	(207) 287-5672 Fax: (2	207) 287-3165
SITE PLAN  Scale 1"   Office of the property o	/ AMORALE		Owner's Na	ame
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Hole Shown Above)  Soil Classification  Texture Consistency Color Mottling  Toxing Consistency	COURSE OF THE STATE OF THE STAT	TE 204	REBECCA	Brown
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Site Evaluator Signature 9/02/18 Page 2 of 3	# 213	9/02/19	Page 2	of 3
Site Evaluator Signature  SE #  Date  Page 2 of 3  HHE-200 Rev. 02/11	Uita Paral	11-10	rage 2	01.3

SUBSURFACE WASTEWATE	Department of Health & Human Services Division of Environmental Health			
Town, City, Plantation	Street, Road, Subdivision	(207) 287-5672 Fax: (207) 287-3165		
LAMOINE	Owner's Name			
1	ROUTE 204	REBECCA GROWN		
	ASTEWATER DISPOSAL PLAN			
1000	GAUGH SOCIO PIPE	SCALE: 1"= ZO FT.		
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FILL DECLUDE ACTION		-NO FICE		
FILL REQUIREMENTS X-SEC	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT TBM H		
lop	ished Grade Elevation -240 of Distribution Pipe or Proprietary Device -37	Location & Description: NAIL + FLAXCOL		
Depth of Fill (Downslope) 32 Bott	tom of Disposal Area	Reference Elevation:		
1. SCARIFY SOIL DI	SPOSAL AREA CROSS SECTION	INISHED Scale		
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SEED & MULCH .	INSTALL (TVO)	PER SECTIVII,		
ALL DISTURBED	4 SCH 20	TABLE 118 OF CODE		
ANEAS.	ERFORATED E			
3. DISTRIBUTION	PIPE (TYP) - HOWE	CONSE SAND FOR		
LIVES TO BE	DISTRIBUTION GROUD	MOUND STONE DEK		
LEVEL,	PIPE, TYP.) (TYP.)	SECTION IL TABLE ILA		
	-#213 9/n2/10	OF Cook Page 3 of 3		
Site Evaluator Signature	SE# Date	HHE-200 Rev. 02/11		
	A MAN			

#### SECTION 11 QUALITY ASSURANCE AND QUALITY CONTROL

#### A. INSTALLATION

- 1. General: On sites with fine soil textures, excavations that expose the bottom and sidewall area of the disposal field must not be carried out when the soil moisture content is above the plastic limit, and except when correcting a nuisance, there is no practical alternative, the LPI agrees, and special construction techniques are used. The absolute plastic limit can be estimated by rolling the soil with the fingers. If the soil forms a wire or rod 1/8th of an inch in diameter and does not crumble when handled, the soil moisture content is too high except in the circumstances listed within this subsection.
- Dig Safe Law: The "Dig Safe Law" 23 M.R.S. § 3360-A places certain notification requirements on any person doing excavations. Excavation is broadly defined to mean any operation in which earth, rock or other material on or below the ground is moved or otherwise displaced by means of power tools, power equipment or explosives and including grading, trenching, digging, ditching, drilling, auguring, tunneling, scraping and cable or pipe driving, except tilling of the soil and gardening or agricultural purposes.
- 3. For a free Dig Safe in Maine information kit, contact the Maine Public Utilities Commission: 1-800-452-4699 http://www.state.me.us/mpuc or by email: maine.puc@maine.gov. (Contact information is accurate as of the effective date of these Rules.)

### B. SITE PREPARATION

- Site preparation requirements: Prior to the placement of any backfill material, the ground surface must be prepared as follows:
  - (a) Soil erosion and sediment control: In areas adjacent to a water body or wetlands, preventative erosion and sediment control measures must be employed consistent with Section 11(M).
  - (b) Clearing: Vegetation must be cut and removed from the area where backfill material is to be placed.
- Grubbing: The area under the disposal area must have the organic soil horizon removed including but not limited to all stumps and roots.
- 3. Scarify the site: The area under the disposal area must be thoroughly roughened. If plowing is used, it must be done parallel to the topographic contour in such a direction that each plow furrow will be thrown up-slope. The soil should be broken up to a depth of 6 to 8 inches. Alternatively, a rototiller or the teeth of a backhoe or frost tooth may be used.
- 4. Transitional horizon: On sites where the backfill material is coarser than the original soil, a minimum of 4 inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the disposal area.
- 5. Fill large holes: If large holes are left as a result of stump and/or stone and/or any removal of the "A" or "Ap" (plow layer) soil horizon these holes must be filled with suitable backfill material that meets the requirements of Section 11(E).

#### C. EXCAVATION

 Excavation requirements: Any excavation required for the installation of a disposal field must comply with all the requirements in this Section.

- 2. Bottom of disposal field: The bottom of each disposal field must be installed at the elevation specified on the permit. It must be maintained to a level grade no greater than 2 inches within 100 feet. Note: The bottom of a disposal field serves as the final stage of the distribution network.
- Avoid unnecessary compaction: Excavation must be carried out in a manner that will avoid unnecessary compaction of both sidewalls and bottom area. Heavy equipment, especially rubber-tired vehicles such as carried out when possible, by a back-hoe operating from outside the perimeter of the previously excavated portions of the disposal fields.
- 4. Reopen smeared or compacted bottom or sidewall surfaces: If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores. Roto-tilling may be necessary to
- Weather conditions: Work should be scheduled so that excavated areas are not exposed to minfall or windblown silt. Any loose soil or debris that is washed or otherwise deposited within the excavation must be carefully removed prior to backfilling. Additionally, disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing, especially if construction will take place over several

### D. CONSTRUCTION

- Construction: The installer of the system must make certain that the system and all its component parts are
  installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and
  with any special engineering design requirements approved or required by the Department, pursuant to an
  approved variance.
- Soil and backfill material: The installer of the system must make certain that the construction and installation
  are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or
  treat the septic tank effluent.

# E. BACKFILL PLACEMENT FOR DISPOSAL AREAS INCLUDING FILL EXTENSIONS

- General: Selection and placement of backfill must comply with the requirements of this Section.
- 2. Backfill standards: The backfill material must be gravelly coarse sand which meets the requirements of Table 11A or 11(E)(2)(a) below, as approved by the Department or LPI:

TABLE 11A Backfill Textural Gradation

Sieve Size	Percent Passing by Weight		
3 inches			
#4	100		
Charles of the Participant of th	75-100		
#10	50-100		
#60	10-50		
#100			
#200	2-20		
	2-8		
Clay Fraction	0-2		

(a) Field determination of backfill: Due to the difficulty of obtaining sieve analyses and the variability of backfill material, the following procedures can be used in the field to determine the suitability of backfill material. The backfill is suitable if the soil texture is loose single grains, the individual sand grains can be readily seen (similar to salt or sugar grains) and felt, and the following conditions are observed: If squeezed in the hand when dry, it will fall apart when the pressure is released but has enough fines to stain the lines in the palm of the hand; or, if squeezed when moist, it will form a cast that will crumble when

- Disposal field stone: The stone used in disposal fields must meet the following requirements:
  - (a) General: Where used, the stone must cover the distribution pipes and extend the full width and length of the disposal field.
  - (b) Thickness: The disposal field stone depth for beds must extend at least 7 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes. For disposal pipes and must extend at least 12 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes.
  - (c) The disposal field stone must be clean, uniform in size and free of fines, dust, ashes, or clay. It must conform to one of the nominal stone sizes listed in Table 11B.
    - (i) Stone specifications: A site evaluator may define a more stringent standard for stone size for any particular system.
  - (d) The disposal field stone may be loaded onto the disposal field site, using a back-hoe, front-end loader, or dump truck. This operation must be carried out from the sides of the disposal field, rather than by driving onto the prepared area of the disposal field. In the case of large disposal fields, tracked equipment may be operated within the disposal field. This equipment must not exert a ground pressure in excess of eight pounds per square inch. The disposal field stone must be pushed in front of the vehicle, such that a minimum of one foot of stone is maintained beneath the vehicle track and the original

TABLE 11B Maximum Percent passing by weight

Sieve Size	Nominal Stone Size		
	1 ½ inches	¾ inches	
2 inches	100	100	
1 ½ inches	95 - 100	100	
¾ inches	0 - 40	90 - 100	
½ inches	0 - 20	0 - 55	
3/8 inches	0-8	0 - 25	
#4	0-5	0 - 10	
#200	0-2	0-2	

- Covering the disposal field stone: The disposal field stone must be covered with a layer of filter fabric or 2
   Covering the attenuate and the distribution pipes progresses.
- Covering the stone with filter fabric:
  - (a) Overlapping filter fabric sheets: Edges of adjacent sheets of fabric must be overlapped by a minimum of 6 inches; and
  - (b) Fabric requirements: The filter fabric specified in the system design must have: adequate tensile strength to prevent ripping during installation and backfilling, adequate air permeability to allow free passage of gases; and adequate particle retention to prevent downward migration of soil particles into the disposal The minimum physical properties for the fabric must be 4.0 ounces/square yard (per ASTM D-3776).

## **Construction Notes**

- 1. Except where a variance request is approved by the LPI and/ or State, disposal bed to be a minimum of 100 feet from all wells, 300 feet from public water supplies, 10 feet from water supply lines, 50 feet from all minor watercourses, 100 feet from all major watercourses, 25 feet from drainage ditches, 10 feet side gradient from the edge of any curtain drains, 10 feet from property lines, 15 feet from buildings without a full foundation.
- 2. Except where a variance request is approved by the LPI and/ or State, septic tanks to be a minimum of 50 feet from potable water supplies for septic systems with design flows of less than 1000 gallons per day (GPD); 100 feet from potable water supplies for septic systems with design flows between 1000 and 2000 GPD; 150 feet from septic systems with design flows of more than 2000 GPD or public water supplies, 10 feet from water supply lines, 50 feet from all minor watercourses, 100 feet from all major watercourses, 25 feet from drainage ditches, 10 feet from property lines, and 8 feet from buildings.
- 3. Divert all roof runoff and surface runoff away from leach field.
- 4. Properly protect all pipes and tanks from freezing and/or crushing.
- 5. Review and comply with attached Septic System User Notes.
- 6. Clean and service septic tank filter as per manufacturer recommendations.

#### SEPTIC SYSTEM USER NOTES

- 1. This septic system has been designed to meet requirements of the State of Maine Subsurface Wastewater Disposal Rules, 10-144A CMR 241. Because site evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the septic system owners responsibility to ensure that this septic system design (HHE-200 form) is in compliance with applicable local ordinances. This can be done by contacting your local plumbing inspector and asking about local ordinances which differ from those required in the Rules.
- 2. It is the septic system owner's responsibility to obtain any local, state, or federal permit(s) that may required for the installation of this septic system (work within or adjacent to a wetland may require a state and/or federal permit). Contact the Maine Department of Environmental Protection at 287-2111 and the Army Corps of Engineers at 623-8367 if you have any questions.
- 3. The use of a garbage grinder on a septic system is not recommended. Depending on use patterns, they can contribute a significant amount of particulate matter and grease to the system. Excessive use may result in premature failure. If a garbage grinder is to be used, additional septic tank capacity, a multi compartment septic tank, and/or more frequent septic tank pumping is recommended.
- 4. For new construction, it is recommended that the septic system owner install low volume toilets (1 1/2 gallons per flush or less) and other flow reducing fixtures such as low volume shower heads and faucets to minimize water consumption. A reduction in water usage will usually result in extended life of your septic system, all other things being equal.
- 5. It is the septic system owner's responsibility to limit water consumption and wastewater generation so that the septic system design capacity (design flow on the HHE-200 form) is not exceeded on any day. Activities which generate large amounts of wastewater should be spread out over several days where possible. Excessive use of a septic system on any day can cause the system to fail even though your use, average our over a week or month, is below design volume.
- 6. Do not connect floor or roof drains to a septic system. Your septic system is not designed to handle this water and it will likely cause premature failure.
- 7. Do not dispose of backwash from water softeners or water treatment devices in your septic system. Large amounts of water can be generated from these devices which can overload a septic system.
- 8. Do not dispose of any hazardous or toxic substances in a septic system such as paint thinner, paints, varnishes, photographic solutions, pesticides, insecticides, organic solvents or degreasers and drain openers. Septic systems depend on living organisms to function properly. Toxic or hazardous material can, in effect, "kill" the system and are a threat to pollute surface or groundwater resources. Instead of using a commercial degreaser or drain opener, which can be toxic, use one of the following:
  - A. A plunger or mechanical snake; or
  - B. Pour 1 handful of baking soda and 1/2 cup of white vinegar down the drain pipe and cover tightly for one minute. Repeat as necessary; or
  - C. Pour 1/2 cup salt and 1/2 cup baking soda down the drain followed by 6 cups of boiling water. Let sit for several hours or overnight, then flush with water.
- Do not dispose of any inert or non-biodegradable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filter, sanitary napkins, facial tissues and wet strength paper towels.
- 10. Do not dispose of large quantities of fats or grease into your septic system unless an external grease

trap has been designed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.

- 11. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life (this includes yeast, horse manure or commercial products). No effective product or material is recognized by State authorities and, in fact, some of these products can actually cause your septic system to fail.
- 12. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solids and grease occurs in septic tanks but the rate of accumulation virtually always exceeds the rate of biologic breakdown. If your septic tank is not pumped out often enough, solids and greases may buildup to the point where they enter your disposal ares. Once this material reaches the disposal area it will clog the soil surface and likely cause premature failure.

I recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you of how often you need to have the septic tank pumped based on what he finds at this inspection (typically a septic tank will need to be pumped every two to five years). Keep in mind that you will need to adjust pumping frequency to coincide with changes in the way you use your system. The more your septic system is used, the more frequently that the septic tank should be pumped.

- 13. Do not drive over or store heavy materials on any part of your septic system unless it is specifically designed to handle heavy loads. Otherwise, crushed components may be the result and the system may fall.
- 14. Divert all surface water away from the septic tank and disposal area. Roof areas which contribute runoff water to the septic system site should have gutters installed to divert that water to another location.
- 15. PLEASE If you have any questions about your septic system or how to use if, call me (825-4528) and ask for advice. You can also call the State Agency responsible for regulating septic systems, the plumbing program in the Division of Health Engineering, at 287-5672.

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